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APPLICATION NO	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/676,832	10/01/2003	Hans-Ulrich Demuth	PBD-00004-D1-CON	3776
38724	7590 09/26/2	06	EXAMINER	
OSI PHAI	OSI PHARMACEUTICALS, INC. ZHANG, NANCY L			
	AWN ROAD E、NY 11747		ART UNIT PAPER NUMBER	
.,,,	<b>,</b>		1614	
			DATE MAILED: 09/26/2006	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)					
Office Action Commence	10/676,832	DEMUTH ET AL.	DEMUTH ET AL.				
Office Action Summary	Examiner	Art Unit					
	Nancy L. Zhang	1614					
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply							
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.  - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.  - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).							
Status							
1) Responsive to communication(s) filed on 0	5 June 2006						
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3) Since this application is in condition for allo		tters, prosecution as to the merit	ts is				
closed in accordance with the practice und	·	·					
Disposition of Claims							
4)⊠ Claim(s) <u>12-14</u> is/are pending in the applica	ation						
	4a) Of the above claim(s) is/are withdrawn from consideration.						
5) Claim(s) is/are withdrawn norm consideration.							
6)⊠ Claim(s) <u>12-14</u> is/are rejected.							
7) Claim(s) is/are objected to.							
· · · · · · · · · · · · · · · · · · ·	8) Claim(s) are subject to restriction and/or election requirement.						
Application Papers	1						
9) The specification is objected to by the Examiner.							
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.							
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).							
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.							
Priority under 35 U.S.C. § 119							
<ul> <li>12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).</li> <li>a) All b) Some * c) None of:</li> <li>1. Certified copies of the priority documents have been received.</li> <li>2. Certified copies of the priority documents have been received in Application No.</li> <li>3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).</li> <li>* See the attached detailed Office action for a list of the certified copies not received.</li> </ul>							
Attachment(s)							
1) Notice of References Cited (PTO-892)  4) Interview Summary (PTO-413)							
2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08)		(s)/Mail Date Informal Patent Application					
Paper No(s)/Mail Date 6) Other:							

### **DETAILED ACTION**

Applicant's amendment filed on June 5, 2006 has been received and entered.

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With the cancellation of claims 1-11, the rejections of claims 1-11 made under 35 USC § 101, statutory double patenting over US Patent No. 6,500,804 and provisional double patenting over copending Application No. 10/910,176 are hereby withdrawn.

Claims 12-14 are presented for examination.

# **Double Patenting**

The nonstatutory double patenting rejection is based on a judicially created doctrine grounded in public policy (a policy reflected in the statute) so as to prevent the unjustified or improper timewise extension of the "right to exclude" granted by a patent and to prevent possible harassment by multiple assignees. A nonstatutory obviousness-type double patenting rejection is appropriate where the conflicting claims are not identical, but at least one examined application claim is not patentably distinct from the reference claim(s) because the examined application claim is either anticipated by, or would have been obvious over, the reference claim(s). See, e.g., *In re Berg*, 140 F.3d 1428, 46 USPQ2d 1226 (Fed. Cir. 1998); *In re Goodman*, 11 F.3d 1046, 29 USPQ2d 2010 (Fed. Cir. 1993); *In re Longi*, 759 F.2d 887, 225 USPQ 645 (Fed. Cir. 1985); *In re Van Ornum*, 686 F.2d 937, 214 USPQ 761 (CCPA 1982); *In re Vogel*, 422 F.2d 438, 164 USPQ 619 (CCPA 1970); and *In re Thorington*, 418 F.2d 528, 163 USPQ 644 (CCPA 1969).

A timely filed terminal disclaimer in compliance with 37 CFR 1.321(c) or 1.321(d) may be used to overcome an actual or provisional rejection based on a nonstatutory double patenting ground provided the conflicting application or patent either is shown to be commonly owned with this application, or claims an invention made as a result of activities undertaken within the scope of a joint research agreement.

Effective January 1, 1994, a registered attorney or agent of record may sign a terminal disclaimer. A terminal disclaimer signed by the assignee must fully comply with 37 CFR 3.73(b).

Claims 12-14 are rejected on the ground of nonstatutory obviousness-type double patenting as being unpatentable over claims 1, 4 and 8 of U.S. Patent No.

6,500,804. Although the conflicting claims are not identical, they are not patentably distinct from each other because the patented application teaches a method for increasing the capacity of insulin providing cells in an animal comprising administering to said animal a therapeutically effective dose of at least one DPIV enzyme activity effector, and the instant application teaches a method for the regeneration of beta-cells (insulin providing cells) in the pancreas of a mammal (an animal is a mammal) comprising chronic oral administration of an inhibitor (an inhibitor is an effector) of DPIV enzyme activity. The compounds of DPIV enzyme activity effectors listed in claim 4 of the patented application are identical to the compounds of DPIV enzyme activity inhibitors listed in claims 13-14 of the instant application. Claim 8 of the patented application further recites that the administration comprises chronic oral administration.

The recitation of "thereby stimulating carbohydrate metabolism" in claim 1 of the instant application is merely a property of the method.

"[T]he discovery of a previously unappreciated property of a prior art composition, or of a scientific explanation for the prior art's functioning, does not render the old composition patentably new to the discoverer." Atlas Powder Co. v. Ireco Inc., 190 F.3d 1342,1347, 51 USPQ2d 1943, 1947 (Fed. Cir. 1999). Thus the claiming of a new use, new function or unknown property which is inherently present in the prior art does not necessarily make the claim patentable.

It is noted that In re Best (195 USPQ 430) and In re Fitzgerald (205 USPQ 594) discuss the support of rejections wherein the prior art discloses subject matter which there is reason to believe inherently includes functions that are newly cited or is

identical to a product instantly claimed. In such a situation the burden is shifted to the applicants to "prove that subject matter shown to be in the prior art does not possess characteristic relied on" (205 USPQ 594, second column, first full paragraph).

The patented application encompasses the instant application's method.

## **Double Patenting**

The nonstatutory double patenting rejection is based on a judicially created doctrine grounded in public policy (a policy reflected in the statute) so as to prevent the unjustified or improper timewise extension of the "right to exclude" granted by a patent and to prevent possible harassment by multiple assignees. A nonstatutory obviousness-type double patenting rejection is appropriate where the conflicting claims are not identical, but at least one examined application claim is not patentably distinct from the reference claim(s) because the examined application claim is either anticipated by, or would have been obvious over, the reference claim(s). See, e.g., *In re Berg*, 140 F.3d 1428, 46 USPQ2d 1226 (Fed. Cir. 1998); *In re Goodman*, 11 F.3d 1046, 29 USPQ2d 2010 (Fed. Cir. 1993); *In re Longi*, 759 F.2d 887, 225 USPQ 645 (Fed. Cir. 1985); *In re Van Ornum*, 686 F.2d 937, 214 USPQ 761 (CCPA 1982); *In re Vogel*, 422 F.2d 438, 164 USPQ 619 (CCPA 1970); and *In re Thorington*, 418 F.2d 528, 163 USPQ 644 (CCPA 1969).

A timely filed terminal disclaimer in compliance with 37 CFR 1.321(c) or 1.321(d) may be used to overcome an actual or provisional rejection based on a nonstatutory double patenting ground provided the conflicting application or patent either is shown to be commonly owned with this application, or claims an invention made as a result of activities undertaken within the scope of a joint research agreement.

Effective January 1, 1994, a registered attorney or agent of record may sign a terminal disclaimer. A terminal disclaimer signed by the assignee must fully comply with 37 CFR 3.73(b).

Claims 12-14 are provisionally rejected on the ground of nonstatutory obviousness-type double patenting as being unpatentable over claims 12-16 of copending Application No. 10/910,176. Although the conflicting claims are not identical, they are not patentably distinct from each other because the copending application

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teaches a method for treating loss of insulin output by increase the capacity of insulin providing cells in a mammal by causing pancreatic cells to proliferate to functionally active cells of the islets of Langerhans comprising administering repeatedly a DPIV enzyme activity inhibitor to a mammal, and the instant application teaches a method for the regeneration of beta-cells (insulin providing cells) in the pancreas of a mammal comprising chronic oral administration of an inhibitor of DPIV enzyme activity.

The compounds of DPIV enzyme activity inhibitors listed in claims 13-14 of the copending application are identical to the compounds of DPIV enzyme activity inhibitors listed in claims 13-14 of the instant application. Claims 15-16 of the copending application further recites that the administration is chronically and orally.

The copending application encompasses the instant application's method.

This is a <u>provisional</u> obviousness-type double patenting rejection because the conflicting claims have not in fact been patented.

# Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in a patent granted on an application for patent by another filed in the United States before the invention thereof by the applicant for patent, or on an international application by another who has fulfilled the requirements of paragraphs (1), (2), and (4) of section 371(c) of this title before the invention thereof by the applicant for patent.

The changes made to 35 U.S.C. 102(e) by the American Inventors Protection Act of 1999 (AIPA) and the Intellectual Property and High Technology Technical Amendments Act of 2002 do not apply when the reference is a U.S. patent resulting directly or indirectly from an international application filed before November 29, 2000. Therefore, the prior art date of the reference is determined under 35 U.S.C. 102(e) prior to the amendment by the AIPA (pre-AIPA 35 U.S.C. 102(e)).

Claims 12-14 are rejected under 35 U.S.C. 102(e) as being anticipated by Villhauer (US Patent, 6,011,155, filed: Oct. 31, 1997; issued: Jan. 4, 2000; already of record).

Villhauer teaches N-(substituted clycyl)-2-cyanopyrrolidine as DPIV inhibitors for treating non-insulin dependent diabetes mellitus (see the abstract). Villhauer discloses a method of inhibiting DPIV comprising administering to a mammal a therapeutically effective amount of a compound of the DPIV inhibitors (column 6, lines 44-48) and that the DPIV inhibitors can be administered orally and one to three times a day (chronically) (see column, lines 37-42). Since one of the characteristics of non-insulin dependent diabetes mellitus is beta-cell deficiency (Efendic, US Patent 5,631,224, issued: May 20, 1997, column 1, lines 26-27) and the administration of DPIV inhibitors in a mammal disclosed by Villhauer is known being used to treat non-insulin dependent diabetes mellitus, Inherently, the regeneration of beta-cells in the pancreas of a mammal is expected.

Clearly, Villhauer anticipates claims 12-14 of the instant application.

#### Conclusion

No claims are allowed.

Applicant's amendment necessitated the new ground(s) of rejection presented in this Office Action. Accordingly, **THIS ACTION IS MADE FINAL.** See MPEP §706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Nancy L. Zhang whose telephone number is (571)-272-8270. The examiner can normally be reached on Mon.- Fri. 8:30am - 5:00pm EST.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Ardin Marschel can be reached on (571)-272-0718. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

My 9/12/06

NLZ

ARDIN H. MARSCHEL
SUPERVISORY PATENT EXAMINER

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